Detailed Technical Specifications for supply of Insulated Toolkit to BESCOM Powermen

Cutting Plier 8"

- The Plier shall be free from pits, cracks, scale, seams, fins & other defects.
- The Plier shall be made from high grade carbon or alloy steel, solid –forged to shape.
- The insulating material shall be PVC or higher grade insulating material.
- The insulation shall cover the whole of the handle including the outer ends.
- The jaws & cutting edges shall be differently heat treated/oil hardened and tempered. Plier & stripper shall have fully polished head and shall be given anti corrosive treatment to avoid corrosion.
- Insulating material shall adhere firmly to the handles & shall be such that it does not easily splinter or get damaged. The handle shall be shaped &finished to afford a comfortable grip.
- Handle insulation shall have a guard to prevent slipping of hand towards conductive head. Insulation shall withstand a voltage of 2800V(rms) ac or 4000 V dc for two mins, without breaking down of insulation.
- Pliers shall be manufactured and dimensioned in such a way that they protect the user from electric shock.
- When fully covered by insulating materials and used in the correct manner, minimize the risk of short circuits between two parts at different potentials.
- The handle insulation of plier shall have a guard so that the hand is prevented from slipping towards the uncovered conductive parts of the head
- Applicable standard IS 3650-1981 (Reaffirmation year: 2022) and its amendments as on date.

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Screw Driver 8" & 10" and Star Screw Driver 8"

- The Screw Driver shall be free from pits, cracks, scale, seams, fins & other defects.
- The Screw Driver shall be made from high grade carbon or alloy steel, solid –forged to shape.
- The insulating material shall be PVC or higher grade insulating material.
- The insulation shall cover the whole of the handle including the outer ends.
- The Operating edges shall be differently heat treated/oil hardened and tempered. Screw Diver shall have fully polished head and shall be given anti corrosive treatment to avoid corrosion.
- Insulating material shall adhere firmly to the handles & shall be such that it does not easily splinter or get damaged. The handle shall be shaped &finished to afford a comfortable grip.
- Handle insulation shall have a guard to prevent slipping of hand towards conductive head. Insulation shall withstand a voltage of 2800V (rms) ac or 4000 V dc for two mins, without breaking down of insulation.
- Screw Driver shall be manufactured and dimensioned in such a way that they protect the user from electric shock.
- When fully covered by insulating materials and used in the correct manner, minimize the risk of short circuits between two parts at different potentials.
- The handle insulation of Screw Driver shall have a guard so that the hand is prevented from slipping towards the uncovered conductive parts of the head the uncovered conductive parts of the head.
- Applicable standard IS 844-1979 (Reaffirmation year: 2021) and its amendments as on date.
- **Screw Driver 8"** - The blade Size shall be 6-6.5 mm, with insulated sleeves & with magnetic tips
- **Screw Driver 10"** - The blade Size shall be 8 -8.5 mm, with insulated sleeves & with magnetic tips
- **Size of the Star Screw Driver 8"**

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LT Line Tester

- The insulating material shall be PVC or higher grade insulating material.
- The insulation shall cover the whole of the handle including the outer ends.
- Insulating material shall adhere firmly to the handles & shall be such that it does not easily splinter or get damaged. The handle shall be shaped &finished to afford a comfortable grip.
- Handle insulation shall have a guard to prevent slipping of hand towards conductive head. Insulation shall withstand a voltage of 2800V(rms) ac or 4000 V dc for two mins, without breaking down of insulation.
- When fully covered by insulating materials and used in the correct manner, minimize the risk of short circuits between two parts at different potentials.
- A device for quick and easy testing of live points and continuity in electrical circuits with a glow lamp and suitable series resistance housed in a case of insulating material.
- Applicable standard IS 5579-1985 (Reaffirmation year: 2018) and its amendments as on date.
- Length 127 mm – 130 mm

Adjustable Spanner 12"

- Adjustable Spanner_shall be made from high grade carbon or alloy steel.
- The insulating material shall be PVC or higher grade insulating material.
- The insulation shall cover the whole of the handle including the outer ends.
- Insulating material shall adhere firmly to the handles & shall be such that it does not easily splinter or get damaged. The handle shall be shaped &finished to afford a comfortable grip.
- Handle insulation shall have a guard to prevent slipping of hand towards conductive head. Insulation shall withstand a voltage of 2800V(rms) ac or 4000 V dc for two mins, without breaking down of insulation.
- When fully covered by insulating materials and used in the correct manner, minimize the risk of short circuits between two parts at different potentials.

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- Applicable Standard – 6149-1984 (Reaffirmation year: 2021) and its amendments as on date, Without Insulation & With Chrome plating

Knife :

- The insulating material shall be PVC or higher grade insulating material.
- The insulation shall cover the whole of the handle including the outer ends.
- Insulating material shall adhere firmly to the handles & shall be such that it does not easily splinter or get damaged.
- The handle shall be shaped &finished to afford a comfortable grip. Handle insulation shall have a guard to prevent slipping of hand towards conductive head. Insulation shall withstand a voltage of 2800V(rms) ac or 4000 V dc for two mins, without breaking down of insulation.
- When fully covered by insulating materials and used in the correct manner, minimize the risk of short circuits between two parts at different potentials.
- The Knife shall be made from high grade carbon or alloy steel, having sharp edges suitable to remove cable insulation.
- With Closed caps for the blade
- Length 175 mm – 180 mm

Tool Pouch : A set of 7 tools shall be packed in a Tool pouch and shall be mountable on waist belt. The pouch shall be water proof and suitable for firm fitting of tools. The belt should be easy to buckle and unbuckle with BESCOM logo.

Testing : Type Tests shall be performed on Insulated Tools as per IS.

Marking : Each tool shall be marked for its Insulation withstand a voltage of 2800V(rms) ac or 4000 V dc, Unique Part Number, Manufacturer's Logo, BESCOM Logo and year of manufacturing for easy identification.

Guarantee : The materials shall be guaranteed for satisfactory performance and against failure due to bad workmanship and inherent defects in design or material for a period of 18months from the date of dispatch.

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Packing : A set of 7 tools, shall be packed in a Tool Pouch made of good quality material, thus forming a Tool Kit for Powermen. These kits packed in Tool pouch shall be further packed in Corrugated Boxes for transportation.

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General Manager (Ele)
Quality Standards & Safety,
BESCOM